

WEST Search History

DATE: Sunday, June 29, 2003

Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT; PLUR=YES; OP=OR

L25	L23 and l14	24	L25
L24	l14 and (l18 or l19 or l20 or l21 or l22)	14	L24
L23	antagonist	30210	L23
L22	((((514/18)!.CCLS.))	1242	L22
L21	((((514/16)!.CCLS.))	761	L21
L20	((((514/15)!.CCLS.))	1021	L20
L19	((((514/14)!.CCLS.))	742	L19
L18	((514/2)!.CCLS.)	4299	L18
L17	gssf or "gly ser ser phe" or gly-ser-ser-phe	2	L17
L16	ghrelin\$	5	L16
L15	gssf\$	3	L15
L14	deghenghi	96	L14
L13	"tissue regeneration".ti. or "nerve growth".ti. or "tissue engineering".ti.	111	L13
L12	fxiiia or "fxiii a"	38	L12
L11	L10 and l1	0	L11
L10	MIZRAHI.in.	120	L10
L9	MONSONEGO.in.	0	L9
L8	"MONSONEGO; ALON"	0	L8
L7	"MIZRAHI; TAL"	0	L7
L6	SCHWARTZ-EISENBACH.in.	0	L6
L5	"SCHWARTZ-EISENBACH; MICHAL"	0	L5
L4	l2 same nerve\$	6	L4
L3	L2 same (treat\$ or administer\$ or pharmaceutical\$)	83	L3
L2	("xiiia factor" or "xiii a factor" or "factor xiiia" or "factor xiii a")	326	L2
L1	xiiia or "xiii a"	1382	L1

END OF SEARCH HISTORY

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PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 4 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 5 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)
now available on STN
NEWS 6 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 7 Sep 03 JAPIO has been reloaded and enhanced
NEWS 8 Sep 16 Experimental properties added to the REGISTRY file
NEWS 9 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 10 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 11 Oct 24 BEILSTEIN adds new search fields
NEWS 12 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 13 Nov 18 DKILIT has been renamed APOLLIT
NEWS 14 Nov 25 More calculated properties added to REGISTRY
NEWS 15 Dec 04 CSA files on STN
NEWS 16 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 17 Dec 17 TOXCENTER enhanced with additional content
NEWS 18 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 19 Jan 29 Simultaneous left and right truncation added to COMPENDEX,
ENERGY, INSPEC
NEWS 20 Feb 13 CANCERLIT is no longer being updated
NEWS 21 Feb 24 METADEX enhancements
NEWS 22 Feb 24 PCTGEN now available on STN
NEWS 23 Feb 24 TEMA now available on STN
NEWS 24 Feb 26 NTIS now allows simultaneous left and right truncation
NEWS 25 Feb 26 PCTFULL now contains images
NEWS 26 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 27 Mar 20 EVENTLINE will be removed from STN
NEWS 28 Mar 24 PATDPAFULL now available on STN
NEWS 29 Mar 24 Additional information for trade-named substances without
structures available in REGISTRY
NEWS 30 Apr 11 Display formats in DGENE enhanced
NEWS 31 Apr 14 MEDLINE Reload
NEWS 32 Apr 17 Polymer searching in REGISTRY enhanced
NEWS 33 Jun 13 Indexing from 1947 to 1956 added to records in CA/CAPLUS
NEWS 34 Apr 21 New current-awareness alert (SDI) frequency in
WPIDS/WPINDEX/WPIX
NEWS 35 Apr 28 RDISCLOSURE now available on STN
NEWS 36 May 05 Pharmacokinetic information and systematic chemical names
added to PHAR
NEWS 37 May 15 MEDLINE file segment of TOXCENTER reloaded
NEWS 38 May 15 Supporter information for ENCOMPAT and ENCOMPLIT updated
NEWS 39 May 16 CHEMREACT will be removed from STN
NEWS 40 May 19 Simultaneous left and right truncation added to WSCA
NEWS 41 May 19 RAPRA enhanced with new search field, simultaneous left and

right truncation
NEWS 42 Jun 06 Simultaneous left and right truncation added to CBNB
NEWS 43 Jun 06 PASCAL enhanced with additional data
NEWS 44 Jun 20 2003 edition of the FSTA Thesaurus is now available
NEWS 45 Jun 25 HSDB has been reloaded

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
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NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 13:03:04 ON 29 JUN 2003

=> file registry
COST IN U.S. DOLLARS SINCE FILE TOTAL
 ENTRY SESSION
FULL ESTIMATED COST 0.21 0.21

FILE 'REGISTRY' ENTERED AT 13:03:12 ON 29 JUN 2003
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STRUCTURE FILE UPDATES: 27 JUN 2003 HIGHEST RN 539020-41-2
DICTIONARY FILE UPDATES: 27 JUN 2003 HIGHEST RN 539020-41-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s gssf/sqsp
L1 11705 GSSF/SQSP

=> s gssflspe/sqep
 2 GSSFLSPE/SQEP
 45982 SQL=8

L2 2 GSSFLSPE/SQEP
(GSSFLSPE/SQEP AND SQL=8)

=> s gssf/sqep
3 GSSF/SQEP
55807 SQL=4

L3 3 GSSF/SQEP
(GSSF/SQEP AND SQL=4)

=> s gssfaklnpr/sqep
0 GSSFAKLNPR/SQEP
109013 SQL=10

L4 0 GSSFAKLNPR/SQEP
(GSSFAKLNPR/SQEP AND SQL=10)

=> s gssfaklqpr/sqep
0 GSSFAKLQPR/SQEP
109013 SQL=10

L5 0 GSSFAKLQPR/SQEP
(GSSFAKLQPR/SQEP AND SQL=10)

=> s gssflspeaklqpr/sqep
1 GSSFLSPEAKLQPR/SQEP
39034 SQL=14

L6 1 GSSFLSPEAKLQPR/SQEP
(GSSFLSPEAKLQPR/SQEP AND SQL=14)

=> s gssflspe/sqsp
L7 118 GSSFLSPE/SQSP

=> s gssfaklnpr/sqsp
L8 0 GSSFAKLNPR/SQSP

=> s gssfaklqpr/sqsp
L9 0 GSSFAKLQPR/SQSP

=> s gssflspeaklqpr/sqsp
L10 1 GSSFLSPEAKLQPR/SQSP

=>

=> s l2 or l3 or l4 or l5 or l6 or l7 or l8 or l10
L11 121 L2 OR L3 OR L4 OR L5 OR L6 OR L7 OR L8 OR L10

=> s octanoyl? or ghrelin?
2243 OCTANOYL?
59 GHRELIN?
L12 2302 OCTANOYL? OR GHRELIN?

=> s l11 and l12
L13 21 L11 AND L12

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
 ENTRY SESSION
FULL ESTIMATED COST 176.04 176.25

FILE 'CAPLUS' ENTERED AT 13:08:40 ON 29 JUN 2003
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FILE COVERS 1907 - 29 Jun 2003 VOL 139 ISS 1
FILE LAST UPDATED: 27 Jun 2003 (20030627/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l13
L14 70 L13

COST IN U.S. DOLLARS	ENTRY	SINCE FILE SESSION	TOTAL
FULL ESTIMATED COST		0.42	176.67

FILE 'REGISTRY' ENTERED AT 13:09:18 ON 29 JUN 2003
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STRUCTURE FILE UPDATES: 27 JUN 2003 HIGHEST RN 539020-41-2
DICTIONARY FILE UPDATES: 27 JUN 2003 HIGHEST RN 539020-41-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STN Note 27, Searching Properties in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> s l2 or l3 or l6
L15 6 L2 OR L3 OR L6

COST IN U.S. DOLLARS	ENTRY	SINCE FILE SESSION	TOTAL
FULL ESTIMATED COST		1.20	177.87

FILE 'CAPLUS' ENTERED AT 13:10:50 ON 29 JUN 2003
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FILE COVERS 1907 - 29 Jun 2003 VOL 139 ISS 1
FILE LAST UPDATED: 27 Jun 2003 (20030627/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l15

L16 8 L15

=> d l16 1-8 all

L16 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS

AN 2002:317047 CAPLUS

DN 137:73541

TI Short ghrelin peptides neither displace ghrelin binding in vitro nor stimulate GH release in vivo

AU Torsello, Antonio; Ghe, Corrado; Bresciani, Elena; Catapano, Filomena;

Ghigo, Ezio; Deghenghi, Romano; Locatelli, Vittorio; Muccioli, Giampiero

CS Department of Experimental and Environmental Medicine and Biotechnologies, University of Milano-Bicocca, Milan, Italy

SO Endocrinology (2002), 143(5), 1968-1971

CODEN: ENDOAO; ISSN: 0013-7227

PB Endocrine Society

DT Journal

LA English

CC 2-5 (Mammalian Hormones)

AB Ghrelin is an acylated peptide recently isolated from rat stomach that potentially stimulates GH release in vitro and in vivo in rat and man.

Ghrelin specifically activates the receptor for the growth hormone secretagogues (GHS-R1a), and it has been proposed as the endogenous ligand mimicked by these synthetic compds. Very recently, it was shown in cells transfected with the GHS-R1a that short acylated peptides encompassing the first 4-5 residues of ghrelin were capable of increasing intracellular calcium almost as efficiently as the full-length ghrelin. In the present study, we demonstrate that truncated analogs of ghrelin are ineffective in stimulating GH release in neonatal rats and do not displace radiolabeled ghrelin from binding sites in membranes from human hypothalamus and pituitary. In conclusion, our data demonstrate that the ability of short ghrelins to stimulate the GHS-R1a in transfected cells is not predictive of their capability to stimulate GH secretion in vivo.

ST ghrelin peptide growth hormone release receptor

IT G protein-coupled receptors

L16 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS

AN 2002:90068 CAPLUS

DN 136:129068

TI Ghrelin antagonist peptides

IN Deghenghi, Romano

PA Zentaris A.-G., Germany

SO PCT Int. Appl., 9 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07K007-00

CC 1-10 (Pharmacology)

Section cross-reference(s): 2, 34

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002008250	A2	20020131	WO 2001-EP7929	20010710
WO 2002008250	A3	20020822		
W: AU, BG, BR, BY, CA, CN, CO, CZ, EE, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LT, LV, MK, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, UZ, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
US 2002187938	A1	20021212	US 2001-902556	20010710
EP 1303538	A2	20030423	EP 2001-962848	20010710
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, TR				
PRAI US 2000-220178P	P	20000724		
WO 2001-EP7929	W	20010710		
OS MARPAT 136:129068				
AB Novel peptides are disclosed having antagonistic properties to the Growth Hormone releasing peptide known as Ghrelin. The new peptides are useful in decreasing the circulating levels of Growth Hormone in a mammal and have therapeutic value. Peptide Gly-Ser-Ser(Octanoyl)-Phe, prepd. by solid phase synthesis, antagonized the effect of ghrelin by reducing growth hormone release in 10-day old rats.				
ST ghrelin antagonist peptide				
IT Drug delivery systems				
Mammalia				

L16 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS

AN 2001:886171 CAPLUS

DN 136:32165

TI Ghrelin analogs for use in screening compounds with growth hormone secretagogue receptor-activating ability and for inducing growth hormone secretion

IN Bednarek, Maria

PA Merck & Co., Inc., USA

SO PCT Int. Appl., 37 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07K

CC 2-5 (Mammalian Hormones)

Section cross-reference(s): 1

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001092292	A2	20011206	WO 2001-US17026	20010525
W: CA, JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
PRAI US 2000-207920P	P	20000530		
OS MARPAT 136:32165				
AB The present invention features truncated ghrelin analogs active at the growth hormone secretagogue (GHS) receptor. Ghrelin is a naturally occurring modified peptide. The analogs can bind to the GHS receptor and, preferably, bring about signal transduction. Ghrelin analogs have a variety of different uses including being used as a research tool and				

being used therapeutically. Also claimed are the use of ghrelin analogs for the purpose of screening for compds. that have the ability to bind to and activate GHS receptors, and analogs that can induce growth hormone secretion.

ST ghrelin analog human cDNA sequence GHS receptor signaling screening
IT G protein-coupled receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(GHSR (growth hormone secretagogue receptor); ghrelin analogs for use in screening compds. with growth hormone secretagogue receptor-activating ability and for inducing growth hormone secretion)
IT Drug screening
Human
Protein sequences
Secretion (process)

L16 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS

AN 2001:662512 CAPLUS

DN 135:366876

TI Structure-Activity Relationship of Ghrelin: Pharmacological Study of Ghrelin Peptides

AU Matsumoto, Masaru; Hosoda, Hiroshi; Kitajima, Yasuo; Morozumi, Naomi; Minamitake, Yoshiharu; Tanaka, Shoji; Matsuo, Hisayuki; Kojima, Masayasu; Hayashi, Yujiro; Kangawa, Kenji

CS Suntory Institute for Medicinal Research & Development, Akaiwa, Chiyoda-machi, Ohra-gun, Gunma, 370-0503, Japan

SO Biochemical and Biophysical Research Communications (2001), 287(1), 142-146

CODEN: BBRC9; ISSN: 0006-291X

PB Academic Press

DT Journal

LA English

CC 2-2 (Mammalian Hormones)

AB Ghrelin, a novel peptide purified from the stomach, is the endogenous ligand of the growth hormone secretagogue receptor. The Ser3 residue of ghrelin is modified with a lipid n-octanoic acid, a modification necessary for hormonal activity. To clarify the role of acyl modification and to identify the active core of ghrelin, we examd. the activities of partially digested ghrelin and synthetic ghrelin derivs. The activities confirmed that the N-terminal portion is the active core. Moreover, synthetic ghrelin derivs. demonstrated that octanoic acid is not the only modification of the Ser3 side chain to sustain the activity of ghrelin; other acyl acid modifications maintained activity. Amino acid replacement of Ser3 indicated that an L-configuration of the third residue is crit. for ghrelin activity. In addn., more stable ether or thioether bonds are capable of replacing the octanoyl ester bond in ghrelin, advantageous for the generation of pharmaceuticals with longer stability. (c) 2001 Academic Press.

L16 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS

AN 2001:416023 CAPLUS

DN 135:175617

TI Structural Similarity of Ghrelin Derivatives to Peptidyl Growth Hormone Secretagogues

AU Matsumoto, Masaru; Kitajima, Yasuo; Iwanami, Tatsuya; Hayashi, Yujiro; Tanaka, Shoji; Minamitake, Yoshiharu; Hosoda, Hiroshi; Kojima, Masayasu; Matsuo, Hisayuki; Kangawa, Kenji

CS Suntory Institute for Medicinal Research & Development, Akaiwa, Chiyuoda-machi, Ohra-gun, Gunma, 370-0503, Japan

SO Biochemical and Biophysical Research Communications (2001), 284(3), 655-659

CODEN: BBRC9; ISSN: 0006-291X

PB Academic Press

DT Journal
LA English
CC 2-2 (Mammalian Hormones)
AB Ghrelin is a 28-amino acid residue endogenous growth hormone secretagogue. Intensive investigations revealed that the N-terminus tetrapeptide, having octanoyl group at Ser3, is the min. active core. In this study, we further explored the structure-function relationships of the active N-terminus portion of ghrelin using a Ca²⁺ mobilization assay. The smallest and most potent ghrelin deriv. we have found so far is 5-aminopentanoyl-Ser(Octyl)-Phe-Leu-aminoethylamide, showing comparable activity to the natural mol. In the process of modifying the active core, the ghrelin-derived short analogs emerged structurally close to peptidyl growth hormone secretagogues. The N-terminus modification suggested that Gly1-Ser2 unit works as a spacer, forming adequate distance between N.alpha.-amino group and n-octanoyl group. Replacement of 3rd and 4th amino acid residues to D-isomer suggested that the N-terminal dipeptide contributes to shape the biol. active geometry by effecting conformation of residues in positions 3 and 4. (c) 2001 Academic Press.
ST ghrelin structure activity
IT Biological transport
(calcium; ghrelin derivs. mobilization of calcium in relation to structure)
IT Structure-activity relationship
(structural similarity of ghrelin derivs. to peptidyl growth hormone secretagogues)
IT 7440-70-2, Calcium, biological studies
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

L16 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS
AN 2001:311717 CAPLUS
DN 135:602
TI Structure-activity relationships of ghrelin: endogenous growth hormone secretagogue
AU Matsumoto, Masaru; Kitajima, Yasuo; Iwanami, Tatsuya; Morozumi, Naomi; Hayashi, Yujiro; Tanaka, Shoji; Minamitake, Yoshiharu; Hosoda, Hiroshi; Kojima, Masayasu; Matsuo, Hisayuki; Kangawa, Kenji
CS Institute for Medicinal R&D, Suntory Limited, Gunma, 370-0503, Japan
SO Peptide Science (2001), Volume Date 2000, 37th, 101-104
CODEN: PSCIFQ; ISSN: 1344-7661
PB Japanese Peptide Society
DT Journal
LA English

L16 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2003 ACS
AN 2001:78416 CAPLUS
DN 134:142304
TI Novel ghrelins, their encoding DNA sequences, and their use as therapeutics
IN Kangawa, Kenji; Kojima, Masayasu; Hosoda, Hiroshi; Matsuo, Hisayuki; Minamitake, Yoshiharu
PA Japan
SO PCT Int. Appl., 210 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
IC C07K014-47; C12N015-12; C12N001-21; C12P021-02; C07K016-18; A61K038-18; A61P005-06; A61P019-08; A61K045-00; A61K048-00; G01N033-53
CC 2-5 (Mammalian Hormones)
Section cross-reference(s): 1, 3, 34
FAN.CNT 1
PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2001007475 A1 20010201 WO 2000-JP4907 20000724
W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CR, CU,
CZ, DM, DZ, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ,
LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU,
SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, ZM, AZ, BY,
KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
BR 2000012688 A 20020416 BR 2000-12688 20000724
EP 1197496 A1 20020417 EP 2000-946453 20000724
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO
PRAI JP 1999-210002 A 19990723
JP 1999-338841 A 19991129
JP 2000-126623 A 20000426
WO 2000-JP4907 W 20000724

AB Novel ghrelins, the natural ligands for growth hormone (GH) secretagogue receptors, and their derivs. that have .gtoreq. 1 amino acid substituted with a modified amino acid or non-amino acid compd. are prepd. and used as a therapeutic for inducing the secretion of growth hormone. Ghrelins are also able to increase the intracellular concn. of calcium ions. An 117-amino acid ghrelin isolated from the stomach of rats contains a serine deriv. (3rd residue) that is modified with n-octanoyl (C8:0) fatty acid. Ghrelins and their encoding cDNA sequences isolated from human and other animals are also shown. The structural-activity relationship of chem. synthesized ghrelin derivs. of human or rats were also described. Claimed are methods for recombinant prepn. of ghrelins, antibodies to ghrelins, methods for immunoassay of ghrelins, and use of ghrelins for treating the diseases assocd. with growth hormone deficiency.

ST ghrelin cDNA protein sequence; structure activity ghrelin deriv; growth hormone secretagogue therapeutic
IT cDNA sequences

L16 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2003 ACS
AN 2000:758603 CAPLUS
DN 134:51509

TI Structure-Function Studies on the New Growth Hormone-Releasing Peptide, Ghrelin: Minimal Sequence of Ghrelin Necessary for Activation of Growth Hormone Secretagogue Receptor 1a

AU Bednarek, Maria A.; Feighner, Scott D.; Pong, Sheng-Shung; McKee, Karen Kulju; Hreniuk, Donna L.; Silva, Maria V.; Warren, Vivien A.; Howard, Andrew D.; Van der Ploeg, Lex H. Y.; Heck, James V.

CS Departments of Medicinal Chemistry Metabolic Disorders Drug Metabolism and Membrane Biochemistry and Biophysics, Merck Research Laboratories, Rahway, NJ, 07065, USA

SO **Journal of Medicinal Chemistry (2000), 43(23), 4370-4376 (Nov. 16, 2000)**
CODEN: JMCMAR; ISSN: 0022-2623

PB American Chemical Society

DT Journal

LA English

CC 2-2 (Mammalian Hormones)

AB The recently discovered growth hormone secretagogue, ghrelin, is a potent agonist at the human growth hormone secretagogue receptor 1a (hGHSR1a). To elucidate structural features of this peptide necessary for efficient binding to and activation of the receptor, several analogs of ghrelin with various aliph. or arom. groups in the side chain of residue 3, and several short peptides derived from ghrelin, were prepd. and tested in a binding assay and in an assay measuring intracellular calcium elevation in HEK-293 cells expressing hGHSR1a. Bulky hydrophobic groups in the side chain of residue 3 turned out to be essential for max. agonist activity. Also,

short peptides encompassing the first 4 or 5 residues of ghrelin were found to functionally activate hGHSR 1a about as efficiently as the full-length ghrelin. Thus, the entire sequence of ghrelin is not necessary for activity: the Gly-Ser-Ser(n-octanoyl)-Phe segment appears to constitute the "active core" required for agonist potency at hGHSR1a.

ST ghrelin structure activity, growth hormone secretagogue receptor ghrelin structure activity

IT Structure-activity relationship

(ghrelin structure-function studies and minimal sequence necessary for activation of growth hormone secretagogue receptor 1a)

IT Growth hormone-releasing hormone receptors

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(growth hormone secretagogue receptor 1a; ghrelin structure-function studies and minimal sequence necessary for activation of growth hormone secretagogue receptor 1a)

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Welcome to DIALOG

Dialog level 02.16.02D

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Logon file405 29jun03 12:01:27

* * * * See HELP NEWS 225 for information on new search prefixes
and display codes

SYSTEM:HOME

Cost is in DialUnits

Menu System II: D2 version 1.7.9 term=ASCII

*** DIALOG HOMEBASE(SM) Main Menu ***

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(e.g., B1 for ERIC).

? b 410

29jun03 12:01:27 User268147 Session D92.1

\$0.00 0.142 DialUnits FileHomeBase

\$0.00 Estimated cost FileHomeBase

\$0.00 Estimated cost this search

\$0.00 Estimated total session cost 0.142 DialUnits

File 410:Chronolog(R) 1981-2003/Aug

(c) 2003 The Dialog Corporation

Set Items Description

? set hi %%%;set hi %%%

HIGHLIGHT set on as "

HIGHLIGHT set on as "

? b 5, 34, 155, 172

29jun03 12:01:33 User268147 Session D92.2

\$0.00 0.070 DialUnits File410

\$0.00 Estimated cost File410

\$0.01 TELNET

\$0.01 Estimated cost this search

\$0.01 Estimated total session cost 0.211 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 5:Biosis Previews(R) 1969-2003/Jun W4

(c) 2003 BIOSIS

File 34:SciSearch(R) Cited Ref Sci 1990-2003/Jun W4

(c) 2003 Inst for Sci Info

File 155:MEDLINE(R) 1966-2003/Jun W4

(c) format only 2003 The Dialog Corp.

*File 155: Medline has been reloaded and accession numbers have changed. Please see HELP NEWS 155.

File 172:EMBASE Alert 2003/Jun W4

(c) 2003 Elsevier Science B.V.

Set Items Description

— ————

? ghrelin?

>>>Unrecognizable Command

? s ghrelin?

S1 1398 GHRELIN?

? s antagonist and s1

360713 ANTAGONIST

1398 S1

S2 111 ANTAGONIST AND S1

? s gssf?

S3 10 GSSF?

? s ?gssf?

>>>File 5 processing for ?GSSF? stopped at ACROLAXUS ORIENTALIS (ORGANISMS - UNSPECIFIED)

>>>File 34 processing for ?GSSF? stopped at ADDR

>>>File 155 processing for ?GSSF? stopped at ALLERGOL

>>>File 172 processing for ?GSSF? stopped at COLESTEROL□

S4 0 ?GSSF?

? type s3/free/all

3/8/1 (Item 1 from file: 5)

14173242 BIOSIS NO.: 200300167271

A role for a Golgi-specific spectrin family member in maintaining Golgi structure and facilitating retrograde transport from the Golgi to the ER.
2002

3/8/2 (Item 2 from file: 5)

13842847 BIOSIS NO.: 200200471668

Chicken ghrelin: Purification, cDNA cloning, and biological activity.
2002

3/8/3 (Item 3 from file: 5)

03872358 BIOSIS NO.: 000075050431

DIFFERENCES IN GLUTATHIONE OXIDATION AND TRANS PEPTIDYLATION BETWEEN NORMAL LIVER AND HEPATOMAS
1981

3/8/4 (Item 4 from file: 5)
02644803 BIOSIS NO.: 000067032865
INHIBITION OF PROTEIN SYNTHESIS INITIATION BY OXIDIZED GLUTATHIONE
ACTIVATION OF A PROTEIN KINASE THAT PHOSPHORYLATES THE ALPHA SUBUNIT OF
EUKARYOTIC INITIATION FACTOR 2
1978

3/8/5 (Item 1 from file: 34)
DIALOG(R)File 34:(c) 2003 Inst for Sci Info. All rts. reserv.

11638401 Genuine Article#: 679TF Number of References: 23
Title: Ghrelin gene in cichlid fish is modulated by sex and development (ABSTRACT AVAILABLE)
Publication date: 20030523
Journal Subject Category: BIOCHEMISTRY & MOLECULAR BIOLOGY; BIOPHYSICS
Descriptors--Author Keywords: GHRH ; growth hormone ; maturation ; sex differentiation ; starvation ; cloning ; tilapia ; Oreochromis
Identifiers--KeyWord Plus(R): HORMONE SECRETAGOGUE RECEPTOR; STIMULATES GROWTH-HORMONE; MESSENGER-RNA; OREOCHROMIS-MOSSAMBICUS; RAT STOMACH; FOOD-INTAKE; SECRETION; NILOTICUS; PEPTIDE; TILAPIA

3/8/6 (Item 2 from file: 34)
DIALOG(R)File 34:(c) 2003 Inst for Sci Info. All rts. reserv.

10925064 Genuine Article#: 586CY Number of References: 49
Title: Chicken ghrelin: Purification, cDNA cloning, and biological activity (ABSTRACT AVAILABLE)
Publication date: 20020900
Journal Subject Category: ENDOCRINOLOGY & METABOLISM
Identifiers--KeyWord Plus(R): GROWTH-HORMONE SECRETION; GASTRIC-ACID SECRETION; GH-RELEASING HORMONE; ACYLATED PEPTIDE; FOOD-INTAKE; HEART-FAILURE; HUMANS; SECRETAGOGUE; RATS; PITUITARY

3/8/7 (Item 3 from file: 34)
DIALOG(R)File 34:(c) 2003 Inst for Sci Info. All rts. reserv.

09322136 Genuine Article#: 391LK Number of References: 12
Title: A fuzzy control for network overload alleviation (ABSTRACT AVAILABLE)
Publication date: 20010200
Journal Subject Category: ENGINEERING, ELECTRICAL & ELECTRONIC
Descriptors--Author Keywords: network overload ; overload alleviation ; generation shift sensitivity factors
Identifiers--KeyWord Plus(R): POWER-SYSTEMS

3/8/8 (Item 1 from file: 155)
DIALOG(R)File 155:(c) format only 2003 The Dialog Corp. All rts. reserv.

14984801 22617576 PMID: 12732213
Ghrelin gene in cichlid fish is modulated by sex and development.
May 23 2003
Tags: Animal; Female; Male; Support, Non-U.S. Gov't
Descriptors: *Cichlids--genetics--GE; *Peptide Hormones--genetics--GE; Age Factors; Amino Acid Sequence; Base Sequence; Cichlids--growth and development--GD; Cichlids--metabolism--ME; DNA, Complementary--chemistry--CH; Food Deprivation; Gene Components; Gene Expression Regulation; Molecular Sequence Data; Peptide Hormones--biosynthesis--BI; Peptide

Hormones--classification--CL; Phylogeny; RNA, Messenger--metabolism--ME;
Sequence Alignment; Sex Factors; Tissue Distribution
CAS Registry No.: 0 (DNA, Complementary); 0 (Peptide Hormones); 0
(RNA, Messenger); 0 (ghrelin)

3/8/9 (Item 2 from file: 155)
DIALOG(R)File 155:(c) format only 2003 The Dialog Corp. All rts. reserv.

10172367 22181232 PMID: 12193558
Chicken ghrelin: purification, cDNA cloning, and biological activity.
Sep 2002
Tags: Animal; Comparative Study; Human; Male; Support, Non-U.S. Gov't
Descriptors: *Chickens; *Cloning, Molecular; *DNA, Complementary
--genetics--GE; *Peptides--isolation and purification--IP; *Peptides
--pharmacology--PD; Amino Acid Sequence; Blotting, Northern;
Chromatography, High Pressure Liquid; Gene Expression; Growth Hormone
--blood--BL; Molecular Sequence Data; Peptides--chemistry--CH; Peptides
--genetics--GE; RNA, Messenger--analysis--AN; Rats; Rats, Sprague-Dawley;
Sequence Homology; Species Specificity
Molecular Sequence Databank No.: GENBANK/AB075215
CAS Registry No.: 0 (DNA, Complementary); 0 (Peptides); 0 (RNA,
Messenger); 0 (ghrelin); 9002-72-6 (Growth Hormone)

3/8/10 (Item 1 from file: 172)
DIALOG(R)File 172:(c) 2003 Elsevier Science B.V. All rts. reserv.

02984772 EMBASE No: 2003182843
Ghrelin gene in cichlid fish is modulated by sex and development
2003
AUTHOR KEYWORDS: GHRH; Growth hormone; Maturation; Sex differentiation;
Starvation; Cloning; Tilapia; Oreochromis
? ds

Set	Items	Description
S1	1398	GHRELIN?
S2	111	ANTAGONIST AND S1
S3	10	GSSF?
S4	0	?GSSF?
? s "ly ser ser phe"		
S5	0	"LY SER SER PHE"
? s "gly ser ser phe"		
S6	0	"GLY SER SER PHE"